IN THE CLAIMS:

1. (Original) A method of real-time simulation, the method comprising:

providing a continuous real-time clock to a non real-time simulator;

synchronizing a simulation clock of the non real-time simulator with the continuous real-time clock on a continuous basis; and

advancing the non real-time simulator to a first time based on the simulation clock reaching the first time.

2. (Original) The method according to claim 1, further comprising:

advancing the non real-time simulator to a second time based on the simulation clock reaching the second time.

3. (Original) The method according to claim 1, further comprising:

receiving an event for the non real-time simulator at a second time on the continuous real time clock; and

advancing the non real-time simulator to a time on the simulation clock equivalent to the second time on the continuous real time clock.

4. (Original) The method according to claim 3, further comprising:

submitting the event to the non real-time simulator for simulation at the time on the simulation clock.

5. (Original) The method according to claim 4, further comprising:

instantiating a call-back function for the event.

6. (Original) The method according to claim 5, further comprising:

initiating the call-back function in response to the event satisfying a predefined role in the non real-time simulator.

7. (Original) An apparatus for real-time simulation, the apparatus comprising:

a non-real time simulator; and

a controller module configured to interface with the non real-time simulator and provide real-time simulation, wherein the controller module is further configured to provide a continuous real time clock to the non real-time simulator to drive a simulation clock of the non real-time simulator and to advance the non real-time simulator to a first time on the simulation clock based on the continuous real time clock reaching the first time.

- 8. (Original) The apparatus according to claim 7, wherein the controller module is further configured to advance the non real-time simulator to a second time on the simulation clock based on the continuous real time clock reaching the second time.
- 9. (Original) The apparatus according to claim 7, wherein the controller module is further configured to receive an event for the non real-time simulator at an event time on the continuous real-time clock.

- 10. (Original) The apparatus according to claim 9, wherein the controller module is further configured to map the event time to a simulation event time and to advance the non real-time simulator to the simulation event time.
- 11. (Original) The apparatus according to claim 10, wherein the controller module is further configured to forward the event to the non real-time simulator.
 - 12. (Original) The apparatus according to claim 7, further comprising: a configuration entity configured to provide configuration to the controller module.
- 13. (Original) The apparatus according to claim 12, wherein the configuration entity is a scenario generator.
- 14. (Original) The apparatus according to claim 7, further comprising:

 a messaging entity configured to provide messages for simulation to the controller module.
- 15. (Original) The apparatus according to claim 14, wherein the messaging entity is a radio emulator.

16. (Original) The apparatus according to claim 7, wherein the controller module further comprises:

a real-time controller loop configured to the non real-time simulator;

a traffic output module adapted to accept output messages from the non-real-time simulator;

a traffic input module adapted to receive input messages from a messaging entity; and a packet queue configured to buffer input and output messages.

17. (Previously Amended) A physical computer readable storage medium on which is embedded one or more computer programs, the one or more computer programs implementing a method of real-time simulation, the one or more computer programs comprising a set of instructions for:

providing a continuous real-time clock to a non real-time simulator;

synchronizing a simulation clock of the non real-time simulator with the continuous real-time clock on a continuous basis; and

advancing the non real-time simulator to a first time based on the simulation clock reaching the first time.

18. (Original) The set of instructions according to claim 17, further comprising:
advancing the non real-time simulator to a second time based on the simulation clock reaching the second time.

19. (Original) The set of instructions according to claim 17, further comprising:
receiving an event for the non real-time simulator at a second time on the continuous real
time clock; and

advancing the non real-time simulator to a time on the simulation clock equivalent to the second time on the continuous real time clock.

20. (Original) The set of instructions according to claim 19, further comprising: submitting the event to the non real-time simulator for simulation at the time on the simulation clock.

- 21. (Original) The set of instructions according to claim 20, further comprising: instantiating a call-back function for the event.
- 22. (Original) The set of instructions according to claim 21, further comprising: initiating the call-back function in response to the event satisfying a predefined role in the non real-time simulator.